FW3150 User's Manual

Part 1

(Product Overview)

Version 3.0

Seyeon Technology Co., Ltd

www.flexwatch.com

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Warning

To prevent risk of electric shock, do not remove the system-case. Any repair or modifications for the product will be allowed by qualified service personals only. Do not expose this appliance to water or moisture. Do not install this product in hazardous areas where highly combustible or explosive products are stored or used.

Important Information

• Before installation, please read and observe all instructions and warnings contained in this manual. Retain this manual with the original receipt for future reference and warranty.

• If any items are missing from the package when you open the box, Please DO NOT install or OPERATE the FlexWATCH® server. Contact the local Dealer or Distributor.

• Please record the following information for technical support and the track record in case of any theft or loss. Serial Number can be found on the underside of FlexWATCH® server.

Warranty

- 2 year Limited.
- Product : Network Video Recorder
- Model Name : FW-5450
- Serial Number : _00-30-6F- - -_
- Purchase Date : _____ (yy/mm/dd)

1. Product Overview

1.1. FW-3150

FW-3150 server is 1ch Network Video Server, which transmits digital images captured by Analog CCD camera over the Internet. So users can view real-time live images over the Internet at anytime and anywhere using the standard web browser such as MS Internet Explorer or Netscape Communicator. There is no need other specific software to view real-time live images over the Internet. FW-3150 server is state-of-the art device and leads new generation of monitoring and security solution.

Picture 1 : FW-3150

1.2. Key Functions of FW-3150

- Standalone device built-in web server
- Max 30 fps transmission speed on TCP/IP network
- 10M/100M Auto Sensing Ethernet
- Effective Bandwidth & Bit-rate Control by MPEG4
- Built-in 2 way Audio transmission (1ch A-in, 1 A-out)
- Supports Dynamic IP users by AOIP server
- Supports Sensor Input, Digital Output
- Supports Transparent mode
- Encryption function by user authentication
- Image transmission function via FTP, Email
- Supports Various PTZ (Pan/Tilt/Zoom) Devices
- 1CH V-out for displaying on analog monitor

1.3. Technical Specification of FW-3150

Model Name	FW-3150
Hardware	32bit Embedded CPU Flash 8Mbytes /SDRAM: 32Mbytes Linux version 2.4.21 operating system Battery backed up real-time clock
Video compression	Motion JPEG MPEG-4
Resolution	NTSC: 704x480,704x240,352x240,176x112 PAL: 704x576,704x288,352x288,176x144
Frame rate (each channel)	Motion JPEG: Up to 30/25 fps at D1 (Secondary Stream at QCIF) MPEG-4: Up to 30/25 fps at D1 (Secondary Stream at QCIF)
Video Streaming	Motion JPEG and MPEG-4 Dual Streaming (Simultaneously) Controllable frame rate and bandwidth
Image setting	Compression levels: 6 (Motion JPEG) / 6 (MPEG-4) Color: color, black & white
Voice	APCM 4bit IMA Sampling rates 8KHz Audio 1ch in & 1ch out
LAN interface	10/100BaseT Ethernet auto sensing
Alarm I/O Interface	1 Photo-coupled inputs and 1 Relay output
Video Input	1 Channel Composite Video Input
Video Output	1 loop through analog video outputs
Serial Interface	Two serial ports for console, modem(PSTN & GSM), serial input/output device, PTZ COM Port is RS-232, AUX port can be configured as RS-232, RS-485 Max Baudrate: 115200 bit/s
Security features	Multi user level protection for camera access, PTZ, Alarm I/O
Advanced Service	Up to 2.2M memory for Pre/Post alarm buffer e-mail, FTP, alarm Buffer by event or schedule IP notification, Alarm Notification to e-mail, CGI Call by event or schedule
Built-in Motion detections	Accuracy: 12x12=144 blocks Motion Sensitivity : -100 ~ 100 : 100 is hypersensitive
PTZ & UART Control Support	PTZ and UART device control through serial interface Up to 35 PTZ protocols from Pelco " P" & " D" protocol, Vicon V1311RB, Samsung, Honeywell and Etc., X10 device control Dial in/out via PSTN or GSM modem
Others	Transmit Serial input data transfer with Video IP notification by e-mail
Management	Configurable by serial, web or telnet Remote system update via telnet, FTP OR web browser.
Developer support	Provides HTTP CGI API ActiveX control development kit
PWR Supply	SMPS input: 100~240VAC, 300mA Output: DC 12 Volt, 800mA
PWR Consumption	DC 12Volt 500 mA

Operating Environment	Temperature: 41° ~ 122°F (5° ~ 50°C) Humidity: 20 ~ 80% RH(non-condensing)
Accessories	Console cable for system set up Test LAN cable CD for User Guide, Installation wizard Quick Installation guide
Miscellaneous	Freely downloadable NDVR Software AVI conversion tool support by FW-voyager. Work with FW-Manager(NDVR S/W) Dynamic IP support through AOIP
Users	32 simultaneous users
Installation, management and maintenance	Installation CD and web-based configuration Firmware upgrades over HTTP or FTP , firmware available at www.flexwatch.com
Video access from Web browser	Video access from Web browser
Minimum Web browsing requirements	Pentium III CPU 500 MHz or higher Windows XP, 2000, NT4.0*, Internet Explorer 6.x or later
System integration support	Powerful API for software integration available at http://www.flexwatch.com, including Simple Viewer API, FlexWATCH Control SDK, event trigger data in video stream, embedded scripting and access to serial port peripherals over HTTP/TCP User can be installed user program daemon for event notification or sending image. Embedded operating system: Linux 2.4
Supported protocols	HTTP, TCP/IP, FTP, Telnet, RARP, PPP, PAP, CHAP, DHCP, SMTP client(e- mail), NTP, Java
Applications	FlexWATCH Manager 16/32/128/256 (not included)
Approvals	FCC : Class A CE : Class A
Dimensions (HxWxD) and weight	Size :122 mm(L) x 84 mm(W)X 35 mm(H) 4.8 ”(L) x 3.3 ”(W)X 1.37”(H) Weight : 310 g (0.68 lbs) without power supply.

Table 1 : FW-3150 Specification

1.4. FW-3150 Packing List

FW-3150's packing box includes the following items.

FW-3150	1ea	
Power Supply Unit (Power Cable & SMPS DC12V 0.8A Adapter)	1ea	
Direct Cable	1ea	
CD (User's Manual, installation wizard and Pictures)	1ea	

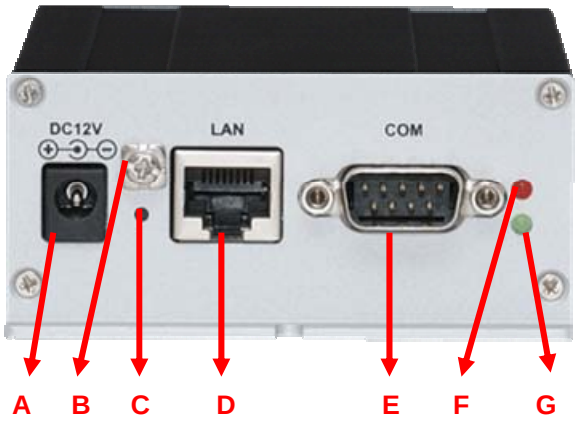
Table 2 : FW-3150 Packing List

☞ *Please check all the listed items are included in your package. For any missing items, please contact your local distributor.*

2. Hardware Description

2.1. FW-3150 Front Panel View

Picture 2 : FW-3150 Front Panel

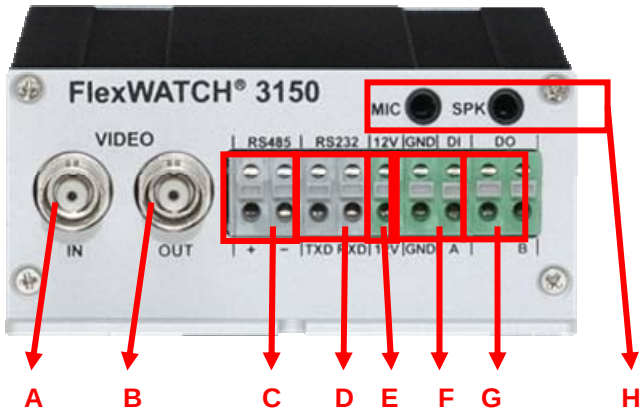


	Name	Description
A	Power	Power input ports for DC 12V 0.8A [SMPS]. Use the original power supply unit from the package.
B	Grounding Connector	Grounding Connector
C	Factory Default Button	This button can reset the factory default settings at the system. Especially when a user lost his/her admin-password, or when it got any uncertain faulty operation. - After reboot the system, wait until hearing two times of beep sound. - Keep pressing FD button for 5~10 seconds until hearing three times short beep sound. ACT LED blinks during the process. The system will reboot automatically when it's completed.
D	LAN	LAN Port for 10/100M Base T Auto sensing.
E	COM	RS-232 ports for Serial input device, Modem or Console (Hyperterminal.connection).
F	POWER LED	Red light blinks when power is provided.
G	LAN(Tx/Rx) LED	Green light blinks when there is data transmission on the connected LAN.

Table 3 : FW-3150 Front Panel Description

2.2. FW-3150 Rear Panel View

Picture 3 : FW-3150 Rear Panel View



	Name	Description
A	Video In	BNC cable port for 1ch Video input.
B	Video Out	1ch Video Outport port displaying on Analog Monitor
C	RS485	RS-485 Ports for PTZ
D	AUX RS-232	RS-232 Ports for PTZ, UART-Out/In.
E	DC 12V Output	12V power relay ports for any external device connection. It must not exceed 0.5A.
F	DI (SENSOR)	Signal input ports for sensor and contact.
G	DO (ALARM)	Signal output ports for alarm and light.
H	MIC, SPK	1ch Audio Output and Input

Table 4 : FW-3150 Rear panel Description

3. FW-3150 HW installation and basic setup

3.1. Before installation,

- Read carefully User's Manual
- Check-out if the power source is stable or not at the environment.

3.2. Factory Default Condition

The following table shows the factory default condition. Please refer to this when you need to change the values on admin menu.

	Factory Default Condition
Admin ID	root
Admin password	root
IP address	10.20.30.40
Network mask	255.255.255.0
Gateway	10.20.30.1

Table 5 : Factory Default Condition

☞ *Factory default Admin ID and Password are all **lower case letters**. You can change the password with Capital letters.*

3.3. FW-3450 Hardware installation

Following steps show the physical installation process for FW-3150.

1. Install CCTV cameras at each required position.
2. Connect BNC cable between CCTV camera's V-out and FW-3150's V-in.
3. Connect a LAN cable at FW-3150 in your local network.
4. Connect the power cable at FW-3150.

After that, you need to follow the steps below.

- First, Network Configuration by FW-installer.
- Second, Camera Configuration by FW-installer or admin-menu.
- Third, Service Configuration by FW-installer or admin-menu.

☞ ***For IP setup**, refer to "Chapter 2.Network Configuration" on User's Manual Part2.*